a second DNA sequence encoding a respiratory syncytial virus (RSV) protein selected from the group consisting of the F and G glycoprotein of RSV or encoding a protein fragment which is a truncated RSV F or RSV G protein lacking the transmembrane anchor and cytoplasmic tail, said second sequence being inserted into a region of the first DNA sequence which is non-essential for replication; and

a third DNA sequence operatively linked to the first DNA sequence, said first, second and third DNA sequences being under transcriptional control of a single promoter, said third DNA sequence being located between said first DNA sequence and the promoter, said third DNA sequence comprising a pair of splice sites that prevent aberrant mRNA splicing *in vivo*.

14. (Twice Amended) The vector of claim 1 wherein said third DNA sequence is the DNA sequence of rabbit β-globin intron II.

15. (Thrice Amended) The vector of claim 1 wherein said promoter sequence is an immediate early cytomegalovirus (CMV) promoter and a human cytomegalovirus Intron A sequence is provided downstream of the promoter and upstream of the third DNA sequence.

16. (Twice Amended) The vector of claim 15 further comprising a fourth DNA sequence at a 3'-end of the first DNA sequence that ensures *in vivo* cleavage at the 3'-end of the first DNA sequence.